

SCORE OVER LENGTH SEARCHES

Attached is a score over length search. This search was developed to overcome limitations in most standard search systems which favor large sequences with high scoring, but lesser overall identity over smaller sequences with higher overall identity. This search is especially useful for relatively small nucleic acid or polypeptide target sequences (antisense, fragments, probes, primers, RNAi, epitopes, haptens, etc.) claimed functionally via a form of hybridization and/or identity language and having defined upper and lower polynucleotide and or polypeptide length limits.

The score over length search is performed by first running the query sequence using examiner-specified identity and polynucleotide or protein length limit parameters, and saving 65,000 hits and 0 alignments from each desired database. The resulting output is reformatted using a Microsoft Word macro and is imported into Excel. The summary table data are then sorted by the ratio of score of each hit sequence divided by its length and the accession numbers for all hits below the examiner's desired score over length parameters are deleted. The remaining accession numbers are used to pull the corresponding sequences from the databases into subdatabases enriched for good hits and the query sequence is re-run against these subdatabases to yield the final results.

The score over length cutoff for this search is 75⁷⁰.

Examiner Please Note: This cover sheet should be included when submitting results to be scanned.

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	2	("5846721").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2004/12/16 08:28
L3	5	"5846721" AND (SEQ ADJ ID ADJ NO: ADJ "10")	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 08:38
L4	0	"5846721.pn." AND (SEQ ADJ ID ADJ NO: ADJ "10")	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 08:29
L5	2	"6635479"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 08:39
L6	1	"6635479" AND (SEQ ADJ ID ADJ NO: ADJ "16")	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 08:43
L7	1	WO2004035615	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 08:46
L8	0	WO0112213	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 08:46
L9	0	WO200112213	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 08:46
L10	2	blackshear.in. AND zinc	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 08:47
L11	0	"patillin." and au.in.	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 08:48
L12	1	patil.in. and au.in.	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 08:49
L13	2	inoko.in. and kagiya.in. and HLA	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 08:52
L14	1	scaggiante.in. and quadrifoglio.in.	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 08:54
L15	16	kmiec.in. and gamper.in.	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 08:56
L16	7	"5912326"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 12:12

L17	4	"6451602"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 08:57
L18	3	beri.in. and antisense	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 09:04
L19	2	"5908772"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 09:05
L20	0	"5908772" and antisense	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 09:05
L21	2	"5908772"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 09:15
L22	7	"6271361"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 09:20
L23	0	"63463398"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 09:21
L24	12	"6346398"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 09:27
L25	3	"6346398" and "7821"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 09:28
L26	5	tritz.in. and robbins.in.	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 12:14
L27	5	"6410518"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 12:16
L28	1	dunlop.in. and kelsell.in. and gerst-talas.in.	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 12:18
L29	5	"6194150"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 12:22
L30	2	"6656731"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 12:23
L31	2	"5807743"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 12:27
L32	2	"6617438"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 12:28

L33	3	"6350934"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 12:34
L34	4	"6300132"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 12:35
L35	2	"6268151"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 12:36
L36	2	"6682930"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 13:38
L37	82	einat.in.	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 13:40
L38	25	einat AND paz.in.	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 13:43
L39	18	rami and skaliter.in.	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 13:53
L40	32	"3791993"	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 13:54
L41	79	((("3791993") or ("3838153") or ("3850578") or ("3850572") or ("3853987") or ("3867517") or ("3879262") or ("3901654") or ("3935074") or ("3984533") or ("3996345") or ("4034074") or ("4098876") or ("4666828") or ("4683202") or ("4736866") or ("4801531") or ("4866042") or ("4873191") or ("4879219") or ("5011771") or ("5175383") or ("5175384") or ("5175385") or ("5192659") or ("5221778") or ("5225347") or ("5272057") or ("5281521") or ("5288846") or ("5298422") or ("5347075") or ("5360735") or ("5387742") or ("5464764") or ("5487992") or ("5614396"))).PN.	US-PGPUB; USPAT; DERWENT	OR	OFF	2004/12/16 14:01

L42	81	(("3791993") or ("3838153") or ("3850578") or ("3850572") or ("3853987") or ("3867517") or ("3879262") or ("3901654") or ("3935074") or ("3984533") or ("3996345") or ("4034074") or ("4098876") or ("4666828") or ("4683202") or ("4736866") or ("4801531") or ("4866042") or ("4873191") or ("4879219") or ("5011771") or ("5175383") or ("5175384") or ("5175385") or ("5192659") or ("5221778") or ("5225347") or ("5272057") or ("5281521") or ("5288846") or ("5298422") or ("5347075") or ("5360735") or ("5387742") or ("5464764") or ("5487992") or ("5614396")).PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2004/12/16 14:39
L43	10461	hypoxia	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 14:39
L44	700	hypoxia WITH expression	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 14:41
L45	286	hypoxia WITH expression WITH (gene or genes)	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 14:41
L46	8	hypoxia WITH expression WITH (gene or genes) WITH antisense	US-PGPUB; USPAT; DERWENT	OR	ON	2004/12/16 14:42
S1	2	("6455674").PN.	US-PGPUB; USPAT; USOCR; DERWENT	OR	OFF	2004/12/16 08:26

-- (FILE 'HOME' ENTERED AT 14:47:16 ON 16 DEC 2004)

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE' ENTERED AT 14:47:31 ON 16 DEC 2004

	E EINAT P/AU
L1	97 S E3 OR E4
L2	26 S L1 AND HYPOXIA
L3	6 S L2 AND ANTISENSE
L4	6 DUP REM L3 (0 DUPLICATES REMOVED)
	E SKALITER R/AU
L5	99 S E3-E4
L6	24 S L5 AND HYPOXIA
L7	4 S L6 AND ANTISENSE
L8	401 S HYPOXIA (S) ANTISENSE
L9	5725 S HYPOXIA (S) EXPRESSION (S) (GENE OR GENES)
L10	80 S L9 (S) ANTISENSE
L11	63 DUP REM L10 (17 DUPLICATES REMOVED)
L12	40 S RTP801
L13	12 S L12 AND ANTISENSE
L14	4 DUP REM L13 (8 DUPLICATES REMOVED)
L15	40 S L12
L16	63 S L11
L17	18 S L11 AND PY<=2000
L18	18 DUP REM L17 (0 DUPLICATES REMOVED)